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Patent 264/036

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re the Application of:) Group Art Unit: Not Yet Assigned
Donald E. Ackley et al.	Examiner: Not Yet Assigned 8 1001
Serial No.: 09/849,119))
Filed: May 4, 2001))
For: SYSTEMS AND METHODS FOR THE ACTIVE ELECTRONIC CONTROL OF BIOLOGICAL REACTIONS)))

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

The accompanying Form PTO-1449 provides a listing of documents which may be relevant to the subject application. A copy of each of these documents was provided in the parent applications. Accordingly, Applicants will provide duplicate copies in respect of the present case only if the Examiner so desires. It is requested that the Examiner fully consider the art cited in the accompanying Form 1449, initial the left-most column of the form adjacent each cited reference, and

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CERTIFICATE OF MAILING	
(37 C.F.R. §1.8a)	
I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States	
Postal Service on the date shown below with sufficient postage as First Class Mail in an envelope addressed to the Commissioner for	
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Patents, Washington, D.C. 20231. Adriana Mojarro

August 01, 2001 Date of Deposit

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return a copy for Applicants' records. It is further requested that the art be cited on the cover of any patent issuing from the subject application.

This statement should not be construed as a representation that more material information does not exist or that an exhaustive search of the relevant art has been made. Nor does this statement constitute an admission by Applicants or Applicants' agent that the information provided herein is necessarily prior art to Applicants' invention. Moreover, Applicants reserve the right to establish the patentability of the claimed invention over any of the listed documents should they be applied thereagainst as references.

Respectfully submitted,

LYON & LYON LLP

Dated: August 1, 2001

By:

Michael S. Davidson

Reg. No. 43,577

MSD/am 633 West Fifth Street, Suite 4700 Los Angeles, California 90071-2066 (949) 567-2300 or (213) 489-1600

FORM PTO-1449



LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

264/036

APPLICANT:

ATTY. DOCKE

SERIAL NO. 09/849,119

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(Use several sheets if necessary)

FILING DATE: May 4, 2001

Donald E. Ackley et al.

GROUP:
Not Yet Assigned

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBC LASS	FILINGDATE
	AA	3,950,738	4/76	Hayashi et al.	365	185	7/74
	AB	3,995,190	11/76	Salgo	313	391	12/75
	AC	4,283,773	8/81	Daughton et al.	364	132	4/79
	AD	4,563,419	1/86	Ranki et al.	435	6	12/83
	AE	4,580,895	4/86	Patel	356	39	10/83
	AF	4,584,075	4/86	Goldstein	204	522	11/84
	AG	4,594,135	6/86	Goldstein	204	551	2/85
	AH.	4,751,177	6/88	Stabinsky	435	6	6/85
	AI	4,787,963	11/88	MacConnell	204	450	5/87
-	AJ	4,807,161	2/89	Comfort et al.	364	550	12/87
	AK	4,816,418	3/89	Mack et al.	436	518	7/85
	AL	4,822,566	4/89	Newman	422	82	5/87
	AM	4,828,979	5/89	Klevan et al.	435	6	11/84
	AN	4,908,112	3/90	Pace	210	198_	6/88
	AO	5,063,081	11/91	Cozzette et al.	435	4	8/90
	AP	5,074,977	12/91	Cheung et al.	205	775	10/90
	AQ	5,075,077	12/91	Durley, III et al.	422	56	8/88
	AR	5,096,669	3/92	Lauks et al.	422	61	9/88
	AS	5,096,807	3/92	Leaback	435	6	12/89
	AT	5,125,748	6/92	Bjornson et al.	356	414	5/91
	AU	5,126,022	6/92	Soane et al.	204	458	2/90
	AV	5,143,854	9/92	Pirrung et al.	436	518	3/90
	AW	5,164,319	11/92	Hafeman et al.	435	287	11/89
	AX	5,166,063	11/92	Johnson	435	173	6/90
	AY	5,200,051	4/93	Cozzette et al.	204	403	11/89
	AZ	5,202,231	4/93	Drmanac et al.	435	6	6/91
	BA	5,219,726	6/93	Evans	435	6	6/89
	BB	5,227,265	7/93	DeBoer et al.	430	41	11/90
	BC	5,234,566	8/93	Osman et al.	204	403	4/91
	BD	5,242,797	9/93	Hirshfeld	435	6	1/92
	BE	5,304,487	4/94	Wilding et al.	435	29	5/92
	BF	5,312,527	5/94	Mikkelsen et al.	205	777	10/92
	BG	5,433,819	7/95	McMeen	216	20	5/93
	BH	5,434,049	7/95	Okano et al.	435	6	2/93
	BI	5,445,525	8/95	Broadbent et al.	439	64	5/94
	BJ	5,516,698	5/96	Begg et al.	436	89	4/92

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LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

APPLICANT:

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Donald E. Ackley et al.

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GROUP:Not Yet Assigned

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BK	5,527,670	6/96	Stanley	435	6	8/94
BL	5,527,681	6/96	Holmes	435	6	11/92
BM	5,605,662	2/97	Heller et al.	422	68	11/93
BN	5,632,957	5/97	Heller et al.	422	68	9/94
ВО	5,653,939	8/97	Hollis et al.	422	50	8/95
BP	5,677,195	10/97	Winkler et al.	436	518	11/92
BQ	5,681,751	10/97	Begg et al.	436	89	5/95
BR	5,849,486	12/98	Heller et al.	435	6	8/96
	BM BN BO BP BQ	BL 5,527,681 BM 5,605,662 BN 5,632,957 BO 5,653,939 BP 5,677,195 BQ 5,681,751	BL 5,527,681 6/96 BM 5,605,662 2/97 BN 5,632,957 5/97 BO 5,653,939 8/97 BP 5,677,195 10/97 BQ 5,681,751 10/97	BL 5,527,681 6/96 Holmes BM 5,605,662 2/97 Heller et al. BN 5,632,957 5/97 Heller et al. BO 5,653,939 8/97 Hollis et al. BP 5,677,195 10/97 Winkler et al. BQ 5,681,751 10/97 Begg et al.	BL 5,527,681 6/96 Holmes 435 BM 5,605,662 2/97 Heller et al. 422 BN 5,632,957 5/97 Heller et al. 422 BO 5,653,939 8/97 Hollis et al. 422 BP 5,677,195 10/97 Winkler et al. 436 BQ 5,681,751 10/97 Begg et al. 436	BL 5,527,681 6/96 Holmes 435 6 BM 5,605,662 2/97 Heller et al. 422 68 BN 5,632,957 5/97 Heller et al. 422 68 BO 5,653,939 8/97 Hollis et al. 422 50 BP 5,677,195 10/97 Winkler et al. 436 518 BQ 5,681,751 10/97 Begg et al. 436 89

		FO	REIGN PATEN	IT DOCUMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBC LASS	TRANSI YES	ATION NO
	BS	0228075	7/87	EP (Dattagupta et al.)				
	BT	2247889	3/92	GB (Stanley)			ᆏ	
	BU	WO95/07363	3/95	PCT (Konrad)			2	
	BV	WO90/01564	2/90	PCT (Adams et al.)				-
	BW	WO89/01159	2/89	PCT (Cornell et al.)	-		8	AUG
	BX	WO93/22678	11/93	PCT (Hollis)			 	60
	BY	WO86/03782	7/86	PCT (Malcolm et al.)			 	9
	BZ	WO89/10977	11/89	PCT (Southern)		····	5	
	CA	WO88/08528	11/88	PCT (Stanbro et al.)			8	200
	CB	WO92/04470	3/92	PCT (Stanley)			1600/2900	
	CC	WO98/51819	11/98	PCT (Heller et al.)			8	
·····	CD	WO96/01836	1/96	PCT (Heller et al.)				
	CE	WO98/01758	1/98	PCT (Kovacs)				
	CF	WO97/12030	4/97	PCT (Heller et al.)			İ	
	CG	2156074	10/85	UK (Palva et al.)				
	СН	57087	87	Yugoslavia (Drmanac)				
	· · · · · · · · · · · · · · · · · · ·	OTHER DOCUMENTS (Including Aut	nor, Title, Date, Pertinent Page	es, Etc.)	!		•
	CI			f Single Base Changes In Humar pp". Genomics, 7, 1990, 463-47		NA Usir	ng Denati	ıring
	CJ			ctrophoresis," <u>Gel Electrophores</u> Hames (New York:IRL Press 19			A Practic	<u>al</u>
	CK			Hybridization," <u>Nucleic Acid Hy</u> gton, D.C. :IRL Press 1985) pp		A Practi	ical Appr	oach
	CL	Bains, "Setting a Sequence to Sequence a Sequence," Bio/Technology, 10:757-758 (1992)						
	CM			ne Initiative?", Science, 253:1489				
	CN	Beattie et al., "Genosensor 7	Fechnology," T	he 1992 San Diego Conference:	Genetic Rec	ognition,	, pp 1-5 (Nov,
	CO	Beltz et al., "Isolation of Mu Methods," Methods in Enzy		es and Determination of Homolog	gies by Filte	r Hybridi	ization	

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FORM PTO-1449

ATTY, DOCKET NO. 264/036

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OTEST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S

APPLICANT:

Donald E. Ackley et al.

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(Use several sheets if necessary)

FILING DATE: GROUP:
May 4, 2001 Not Yet Assigned

RADEMAR	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
CP	Brown et al. "Electrochemically Induced Adsorption of Radio-Labelled DNA on Gold and HOPG Substrates
Cr	for STM Investigations". Ultramicroscopy, 38, 1991, 253-264
CQ	Conner et al., "Detection of Sickle Cell β³-Globin Allele by Hybridization With Synthetic Oligonucleotides," Proc. Natl. Acad. Sci. USA, 80:278-282 (1983)
CR	Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)
CS	Drmanac et al., "DNA Sequence Determination by Hybridixation: A Strategy for Efficient Large-Scale Sequencing," Science, 260: 1649-1652 (1993)
CT	Eggers et al. "Biochip Technology Development", BioChip Technology Development, Lincoln Laboratory Technical Report 901, Nov. 9, 1990
CU	Fiaccabrino et al., "Array of Individually Addressable Microelectrodes", Sensors and Actuators B, 18-19 (1994) 675-677
CV	Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)
CW	Fodor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1992)
CX	Horejsi, "Some Theoretical Aspects of Affinity Electrophoresis," <u>Journal of Chromatography</u> , 178:1-13 (1979)
CY	Horejsi et al., "Determination of Dissociation Constants of Lectin Sugar Complexes by Means of Affinity Electrophoresis, Biochimica at Biophysica Acta, 499:200-300 (1977)
CZ	Kakerow et al., "A Monolithic Sensor Array of Individually Addressable Microelectrodes", Sensors and Actuators A, 43 (1994) 296-301
DA	Mathews, Kricka. "Analytical Strategies For The Use Of DNA Probes". Analytical Biochemistry, 169, 1988, 1-25
DB	Palecek. "New Trends in Electrochemical Analysis of Nucleic Acids". <u>Bioelectrochemistry and Bioenergetics</u> , 20, 1988, 179-194
DC	Ranki et al., "Sandwich Hybridization as a Convenient Method for the Detection of Nucleic Acids in Crude Samples," Gene, 21:77-85 (1983)
DD	Saiki, "Amplification of Genomic DNA," <u>PCR Protocols: A Guide to Methods and Applications</u> , (Academic Press, Inc. 1990), pp 13-20
DE	Southern et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides Evaluation Using Experimental Models," <u>Genomics</u> , 13:1008-1017 (1992)
DF	Strezoska et al., "DNA Sequencing by Hybridization: 100 Bases Read by a Non-Gel-Based Method", <u>Proc. Natl. Acad. Sci. USA</u> , 88:10089-93 (1991)
DG	Wallace et al., "Hybridization of Synthetic Oligodexribonucleotides to φ x 174 DNA: The Effect of Single Base Pair Mismatch," Nucleic Acid Res., 6:3543-3557 (1979)
DH	Washizu, "Electrostatic Manipulatiaon of Biological Objects," Journal of Electrostatics, 25:109-123 (1990)
DI	Washizu and Kurosawa, "Electrostatic Manipulation of DNA in Microfabricated Structures," <u>IEEE</u> <u>Transactions on Industry Applications</u> , 26:1165-1172 (1990)
DJ	Brown et al., "Electrochemically Induced Adsorption of Radio-Labelled DNA on Gold and HOPG Substrates for STM Investigations", <u>Ultramicroscopy</u> , 38 (1991) pp 253-264
DK	Palacek, "New Trends in Electrochemical Analysis of Nucleic Acids", <u>Bioelectrochemistry and Bioenergetics</u> , 20 (1988) pp 179-194

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